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# भारत का राजपत्र

## The Gazette of India

प्रापिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० १] नई दिल्ली, शनिवार, जनवरी ६, १९९०, (पौष १६, १९११)

No. 1] NEW DELHI, SATURDAY, JANUARY 6, 1990, (PAUSA 16, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
 [Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड २

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
 [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
 PATENTS AND DESIGNS  
 Calcutta, the 6th January 1990

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below:—

Patent Office Branch,  
 Todi Estates,  
 3rd Floor, Lower Parel (West),  
 Bombay-400 013

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
 Unit No. 401 to 405, 3rd Floor,  
 Municipal Market Building,  
 Saraswati Marg, Karol Bagh,  
 New Delhi-110 005

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
 61, Wallajah Road,  
 Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
 "NIZAM PALACE", 2nd M.S.O. Building,  
 5th, 6th, and 7th Floor,  
 234/4, Acharya Jagadish Bose Road,  
 Calcutta-700 020

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees:*—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

## एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 6 जनवरी 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अस्थित है तथा बम्बई, विल्सी एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रावेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रवर्णित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी इस्टेंट  
तीसरा तल, लोअर परेल (भैंसरम),  
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा भाष्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दावरा और नगर हवेली।

तार पता—“पेटेंटोफिस”।

पेटेंट कार्यालय शास्त्र,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती भार्ग, करोलबाग,  
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश  
राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
चंडीगढ़ तथा विल्सी।

तार पता—“पेटेंटोफिस”।

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Paten's Act, 1970

The 27th November, 1989

976/Cal/89. Abanindra Nath Ghosh. A device for supplying hot air into internal combustion engines.

977/Cal/89. Hariram Kunverji Rathore. An electro-mechanical device for controlling the travel in a vertical shaft (such as the pit of a mine) of cages or like bodies.

978/Cal/89. Hitachi Ltd. An arrangement for preventing inductive interference in electric car.

979/Cal/89. Armeo Advanced materials Corporation. Hot working method for producing grain oriented silicon steel with improved glass film.

पेटेंट कार्यालय शास्त्र,  
61, वालाखाह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, करेल, समिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिनरी, लक्ष्मणपुरम्, मिनिकाय तथा एमिनिदिवि द्वीप।

तार पता—“पेटेंटोफिस”।

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम ऐलेस, बिवतीय बहुहलीय कार्यालय भवन,  
5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020.

भारत का अद्वितीय क्षेत्र।

तार पता—“पेटेंट्स”।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, मूलनाग, पिंडरण या अन्य प्रदेश पेटेंट कार्यालय के क्षेत्र उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे।

शुल्क :—शुल्कों की अदायगी या सो नकद की जायेगी अथवा उपयुक्त कार्यालय में नियंत्रक को भूगतान योग्य भनावेश अथवा डॉक आइडेश या जहाँ उपयुक्त कार्यालय अस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भूगतान योग्य दॉक ड्राफ्ट अधदा चैक द्वारा की जा सकती है।

- The 28th November, 1989  
980/Cal/89. Surendra Singh Sarang. Ball joint assemblies.
- 981/Cal/89. Ormat Systems, Inc. Method of and apparatus for producing power using steam.
- 982/Cal/89. Idemitsu Petrochemical Co. Ltd. Fastener and Wrapping bag having the same.

The 29th November, 1989

983/Cal/89. Instytut Chemii Przemyslowej. Method for isolation and purification of coal tar-derived anthracene.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 15th November, 1989

- 835/Mas/89. Siddaiah Sudarshan. Polyurethane Pencil.
- 836/Mas/89. Union Carbide Chemicals and Plastics Company Inc. Process for the in situ blending of polymers.

837/Mas/89. Maschinenfabrik Rieter AG. Combing machine with several clamping devices.

The 16th November, 1989

838/Mas/89. Philip Morris Products Inc. Heat source for a smoking article.

839/Mas/89. Sumitomo Metal Industries Ltd. Method for manufacturing molten pig iron.

840/Mas/89. Hydro-Quebec. Method and apparatus for automatically sensing the configuration of a surface area and effecting a work function thereon.

The 17th November, 1989

841/Mas/89. Mefina S.A. A device for measuring the passage of a predetermined length of cloth at right angles to the needle of a sewing machine.

842/Mas/89. Grovag Grossvantiltechnik AG. Seals for gas isolators. (November 25, 1988; Great Britain).

843/Mas/89. Maschinenfabrik Rieter AG Spinning Machine.

#### PATENT SEALED

164239	164420	164422	164436	164437	164445	164475
164488	164501	164503	164507	164510	164511	164512
164513	164516	164518	164522	164523	164524	164533
164535	164536	164537	164544	164545	164549	164554
164560	164562	164565	164567	164568	164569	164571
164574	164576	164578	164581	164588	164589	164599
164600	164658	164666.				

CAL - 18

DEL - 19

BOM - 6

MAS - 2.

#### NUMBER OF PATENTS SEALED FROM 1ST JULY, 1989 TO 30TH NOV., 1989

INDIAN : 183  
FOREIGN : 477

TOTAL : 660

#### RENEWAL FEES PAID

142429	142433	143097	144272	145641	145949	146325
146392	146622	147038	147048	147057	147058	147490
147716	148183	148184	148210	148229	148295	148406
148468	148670	148820	148950	149082	149367	149573
149859	149925	149971	150036	150062	150125	150163
150180	150188	150295	150303	150592	150897	150901
151010	151028	151169	151254	151274	151300	151708
151811	151900	151926	152048	152071	152260	152296
152297	152374	152467	152515	152573	152580	152713
152786	152811	152871	152851	152999	153057	153119
153146	153178	153223	153277	153278	153315	153342
153451	153476	153490	153521	153530	153577	153610
153733	153802	153811	153870	154418	154452	154454
154484	154485	154358	154620	154688	154689	154693
154694	154740	154749	154758	154844	154847	154850
154852	154870	154905	155089	155114	155115	155265
155477	155373	155609	155698	155845	156063	156067
156169	156171	156400	156465	156648	156691	156769
156814	156873	156874	156906	156910	156911	156936

156981	156984	157006	157008	157057	157062	157092
157094	157758	157901	158200	158247	158279	158292
158298	158356	158357	158358	158435	158436	158439
158181	158502	158536	158856	158866	158919	158973
159068	159106	159115	159168	159196	159383	159417
159466	159527	159647	159666	159667	160070	16017
160091	160094	160216	160292	160797	160956	161017
161018	161200	161232	161267	161275	161305	161336
161379	161380	161415	161438	161482	161500	161517
151528	161732	161738	161775	161793	161795	161840
161846	151847	161848	161849	161914	161929	162058
162108	162153	162196	162197	162219	162238	162258
162279	162323	162397	162437	162440	162751	162763
162768	162835	162837	162933	162955	162979	162980
162990	163008	163020	163059	163134	163160	163293
163361	163427	163428	163481	163482	163510	163601
163602	163614	163903	163922	163942	163943	164101
164104	164142	164144	164147	164152	164155	164160
164178	164243	164294	164338	164990.		

#### CESSATION OF PATENTS

151360	151361	151365	161366	161367	161368	161369
151371	151373	151374	151382	151386	151387	151388
151390	151393	151399	151401	151402	151403	151406
151407	151410	151412	151414	151415	151421	151424
151425	151426	151431	151433	151452	151455	151458
151459	151460	151461	151462	151463	151469	151472
151476	151477	151478	151480	151481	151482	151485
151490	151491	151492	151493	151494	151495	151496
151497	151498	151499	151500	151501	151502	151503
151507	151508	151509	154715	160925	161284	162707
163022	163316.					

#### RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159484 granted to Harsco Corporation for an invention relating to "bridge launcher".

The patent ceased on the 8th March 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160647 granted to Pradip Waman Desai for an invention relating to "an improved process for reclaiming rubber from waste/scrapped vehicle tyres by using an improved jacketed autoclave or the like vessel."

The patent ceased on the 5th November 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent

Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155211 granted to Council of Scientific and Industrial Research for an invention relating to "a device for continuous separation of lighter fraction from heavier fractions of decorticated grains using a liquid system."

The patent ceased on the 31st December 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152856 granted to Council of Scientific and Industrial Research for an invention relating to "a process for the production of improved corrosion resistant Zinc Coatings on steel substrates by electrode position".

The patent ceased on the 27th September 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154549 granted to Natverlal Purshotamdas Kinariwala for an invention relating to "a traverse drum for guiding yarn".

The patent ceased on the 25th September 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156876 granted to Council of Scientific and Industrial Research for an invention relating to "a protection device for Civil structures and electrical equipments".

The patent ceased on the 13th August, 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162721 granted to Energy Conversion Devices, Inc, for an invention relating to "method of making a photovoltaic panel".

The patent ceased on the 15th June 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146061 granted to ATO Chimie for an invention relating to "process for manufacturing thermoplastic compositions having an elevated gas impermeability and containers made of such Compositions".

The patent ceased on the 14th October, 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the Restoration of Patent No. 157425 granted to The Associated Cement Companies Limited for an invention relating to "a method of manufacturing stabilised semi-solid Composite Oil based fuel from Coal-lignite or anthracite for use as liquid fuel".

The patent ceased on the 11th August 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta - 700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(10)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162722 granted to Energy Conversion Devices, Inc. for an invention relating to "apparatus for making a photovoltaic panel from a roll of a web of a flexible substrate material".

The patent ceased on the 15th June 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 11-11-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta - 700 020 on or before the 6th March, 1990 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below, against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

#### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोइँ अग्रिम,

इसकी निर्गम की तिथि से 4 महीने या अग्रिम एसी अधिक औ उसके 4 महीने की अधिक की सारांश के पूर्व पेटेंट नियम 1972 के द्वितीय प्रपत्र 14 पर आधिकृत एक महीने की अधिक से अधिक न होने के भीतर कभी भी सारांश को एसें विरोध को सूचना दिवित प्रपत्र 15 पर दा सकते हैं। विरोध सम्बन्धी नियम वालेय, उक्त सूचना के साथ अधिक पेटेंट नियम, 1972 के नियम 36 में यथा दिवित इसकी तिथि के एक महीने के भीतर ही काइल किए जाने चाहिए।

"प्रथम विनिर्देश के संदर्भ में नीचे दिए गयीकरण, भारतीय नियमकरण तथा अर्द्धराष्ट्रीय विरोधकरण के अनुरूप हैं।"

नीचे सूची गत विनिर्देशों की सीमित संस्थान में मुद्रित प्रतिदूष, भारत सरकार बृक डिपो, 8 किरण थंकर राय रोड, कलायना में विक्रय होते यथा समय नेपलश्व होती। प्रथम विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त छाक लें)। मुद्रित विनिर्देश की आपूर्ति होते साथ पथ के साथ निर्मालित सूची में यथा ग्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपानन् (चित्र आवेदनों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अधिक फोटो ग्रन्तियों की आपूर्ति एटेंट कायालय, कलकत्ता, द्वारा दिवित नियान्तरण प्रभार (उभय कार्यालय में पश्च व्यवहार द्वारा सुनिश्चित करने के उपरांत उम्मीद अदायगी पर को जा सकती है)। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे अंकित चित्र आरें आवेदनों को जोड़कर उने 4 में गुणा करने; (क्योंकि प्रत्येक पृष्ठ का नियान्तरण प्रभार 4/- रु. है) फोटो नियान्तरण प्रभार का परिवर्तन किया जा सकता है।

CLASS : 119-F; 3; 119-D

165741

Int. Cl. : D 03 d; 47/00; 47 30; 47/48.

#### WEAVING MACHINES.

Applicant : SUISZER-RUTI MACHINERY WORKS LTD., OF 8630 RUTI, ZURICH, SWITZERLAND.

Inventor : BERTSCH GOITHILE.

Application No. 591/Cal/1984 filed August 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

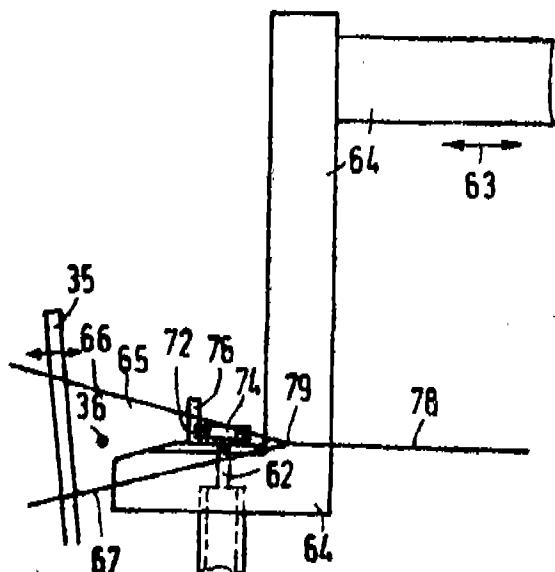
In a weaving machine, comprising :

a weft thread supply roll which remains outside a weaving shed during weft insertion;

weft threads being unwound from said weft thread supply roll during weft insertion;

a selvedge-laying needle for laying ends of the weft threads which lie outside the weaving shed into a subsequently formed weaving shed, the improvement which comprises :

an air nozzle for transferring said weft thread ends of said weft threads to said selvedge-laying needle.





## 7 Claims

A method of making a mixed form halogenated and/or inter-halogenated resin for disinfecting water, comprising the steps of :

providing a predetermined amount of a combination of halogens and /or interhalogens in the form A/B wherein A/B is selected from the group consisting of I<sub>2</sub>/ICl, I<sub>2</sub>/IBr, I<sub>2</sub>/Br<sub>2</sub>, I<sub>2</sub>/BCl<sub>1</sub>, Br<sub>2</sub>/BrCl, Br<sub>2</sub>/ICl, Br<sub>2</sub>/IBr, BrCl/ICl, BrCl/IBr, IC1/IBr and mixture thereof, and

reacting said combination with a polyvinylpyridine resin having a cyclic pyridyl functional ring group C<sub>5</sub>H<sub>5</sub>N crosslinked with 2-25% divinylbenzene such that at least 10% of the pyridyl functional groups are complexed by the combination A/B bonded to the nitrogen atom of the pyridyl functional group in proportions such that A to B is present in the molar ratio of from 0.08 to 0.92.

Compl. specn. 19 pages

Drg. Nil

CLASS : 29-A

165747

Int. Cl. : G 06 g 7/06.

## A MULTIPLE COMPUTER SYSTEM HAVING A PLURALITY OF COMPUTERS INTERCONNECTED VIA TRANSMISSION PATH.

Applicant : HITACHI, LTD., OF 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) KINJI MORI, (2) SHOJI MIYAMOTO, (3) KOICHI HARUNA.

Application No. 417/Cal/1986 filed June 04, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

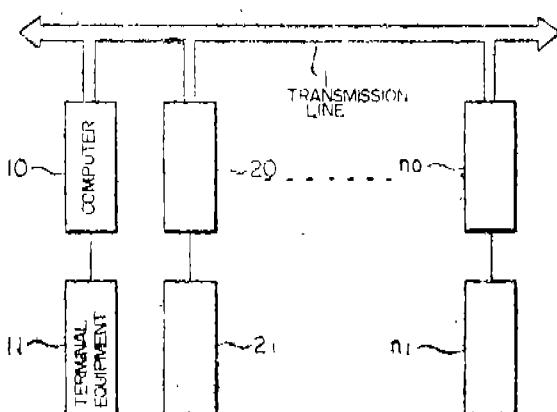
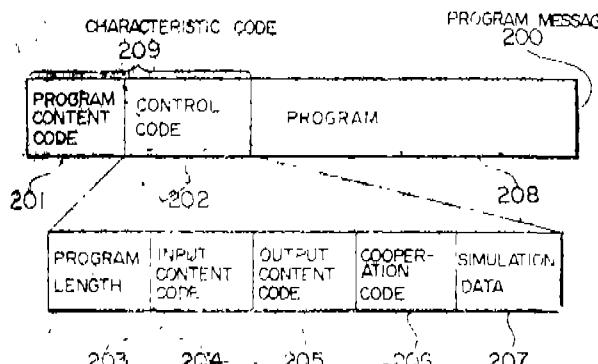
## 10 Claims

A multiple computer system having a plurality of computers (10, 20, ..., no) interconnected via a transmission path (1), each having a processor (100) and at least a memory (105) for storing programs, and comprising :

means (100, 101, 104) for sending from a computer a program (208) via the transmission path together with a characteristic code (209) representing the characteristic of said program onto said transmission path to one or more another computer;

means (100, 103, 107) in other computers, for judging whether said delivered program is available in itself based on said characteristic code annexed to said delivered program; and

means (100, 103, 105) in other computers for storing said delivered program into said memory when it is judged that said delivered program is available in itself.



Compl. specn. 15 pages

Drg. 4 sheets

Int. CLASS : B 21 c 3/00

165748

## METHOD OF MANUFACTURING A DRAWING DIE.

Applicant : N. V. PHILIPS' GLOEILAMPENFABRIEKEN, AT GROENEWOUDSEWEG 1, EINDHOVEN, THE NETHERLANDS

Inventors : TJEPEKE HENDRIK EKKELBOOM.

Application No. 450/Cal/1986 filed July 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

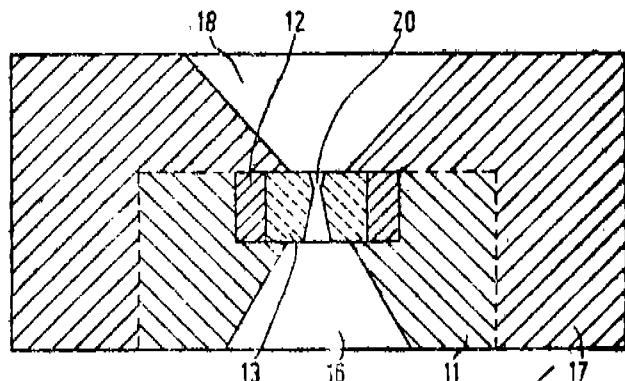
## 4 Claims

## A method of manufacturing :

a drawing die, in which a hollow cylinder of a metal or a metal alloy is placed in a central opening in one side of a metal housing;

a core is placed inside the cylinder which has an internal diameter larger than the maximum dimension of the core in a direction perpendicular to the axis of the cylinder, and the cylinder is deformed to reduce its axial dimension and its internal diameter to an extent such that an annulus is formed which grips the core and is a tight fit in the central opening of the metal housing, after which a drawing passageway is provided in the core;

characterized in that the central opening in the metal housing has a level bottom on which the core is located, and that during the deformation of the cylinder the core is clamped by a cylindrical punch having a pressure surface which is parallel to the bottom of the central opening of the metal housing which punch fits accurately in the cylinder and has a diameter which is equal to or larger than said maximum dimension of the core.



Compl. specn. 11 pages

Drg. 2 sheets

CLASS : 206-E

165749

Int. Cl. : H 04 n 1/32.

## APPARATUS FOR ADJUSTING THE PULSE OF A DIGITIZED COMPOSITE VIDEO SIGNAL.

Applicant : KRONE, GMBH, OF BEESKOWDAMM 3-11, D-1000 BERLIN 37, WEST GERMANY.

Inventor : HELMUT KLIEM.

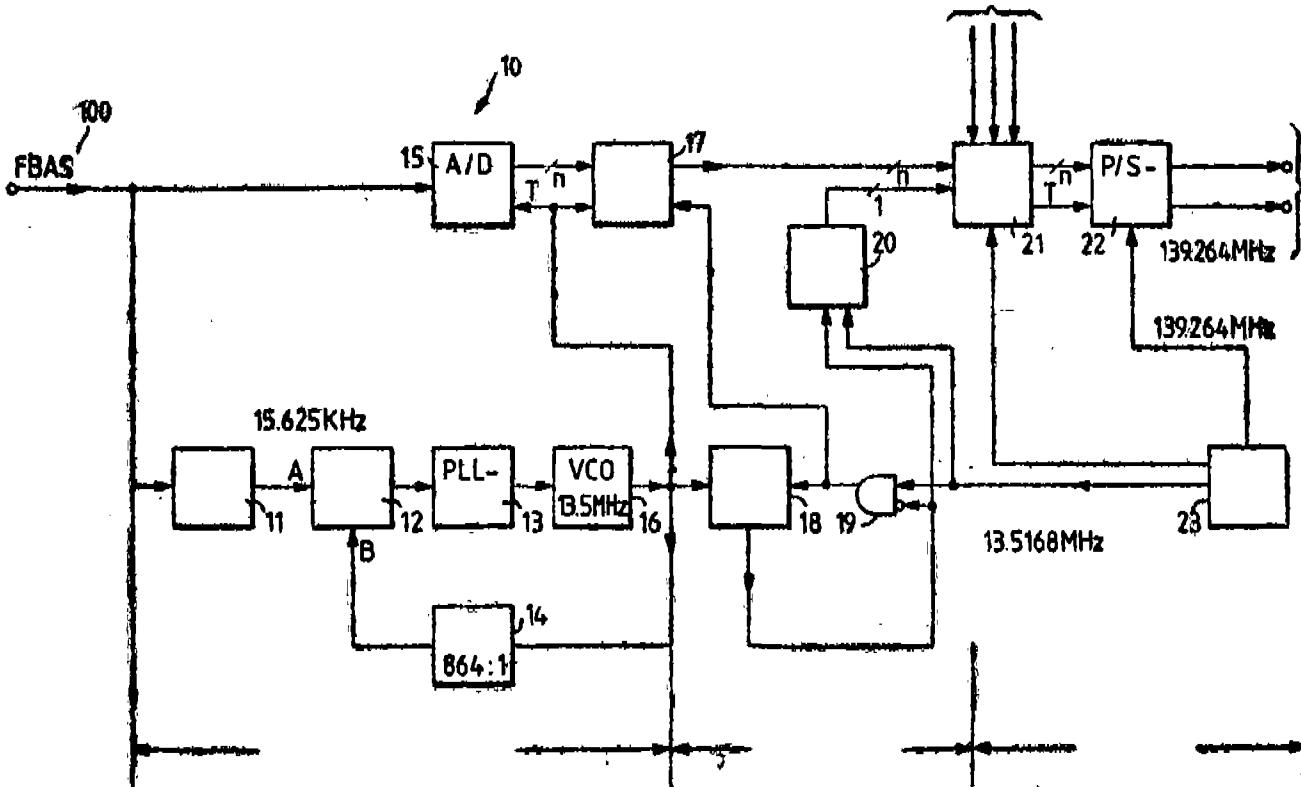
Application No. 499/Cal/1986 filed August 03, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An apparatus for adjusting the pulse rate of a digitized composite video signal to a pulse rate that is compatible with a pulse rate used in a digital transmission link and using a moving-image coder comprising :

means for generating a digitized composite video signal at a first pulse rate;  
 means for storing characters of the digitized signal in response to write pulses at said first pulse rate;  
 means for reading stored characters and generate a serial pulse train representative thereof at a second pulse rate that is higher than the first pulse rate and is compatible for use in said digital transmission link;  
 means responsive to pulses at the first and second pulse rates for generating a stuffing command when the time interval between a write pulse and a read pulse falls below a predetermined limit;  
 means for stuffing pulses at the second pulse into a stream of pulses from the reading means; and  
 means responsive to the stuffing command for inhibiting the reading means activating said stuffing means.



Compl. specn. 20 pages

Drg. 4 sheets

CLASS : 27-F

165750

Int. Cl. : E04 b 7/00.

## ROOF STRUCTURE FOR TRANSPARENT ROOFS AND HEATING SYSTEMS COMPRISING SAME.

Applicant : GUNNARSHAUG OLAV JOHANNES, OF TONSTADGREND 3, N-7075 TILLER, NORWAY.

Inventors: GUNNARSHAUG, OLAV JOHANNES.

Application No. 700/Cal/1986 filed September 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

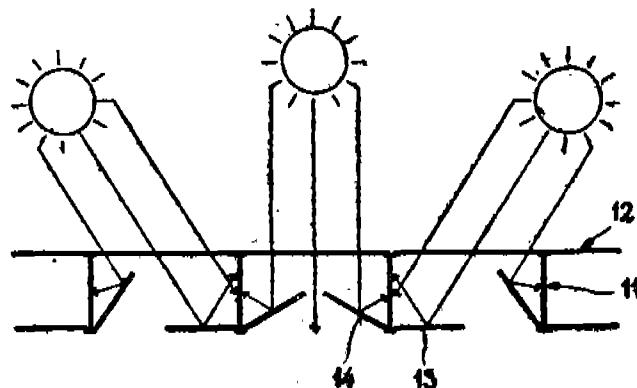
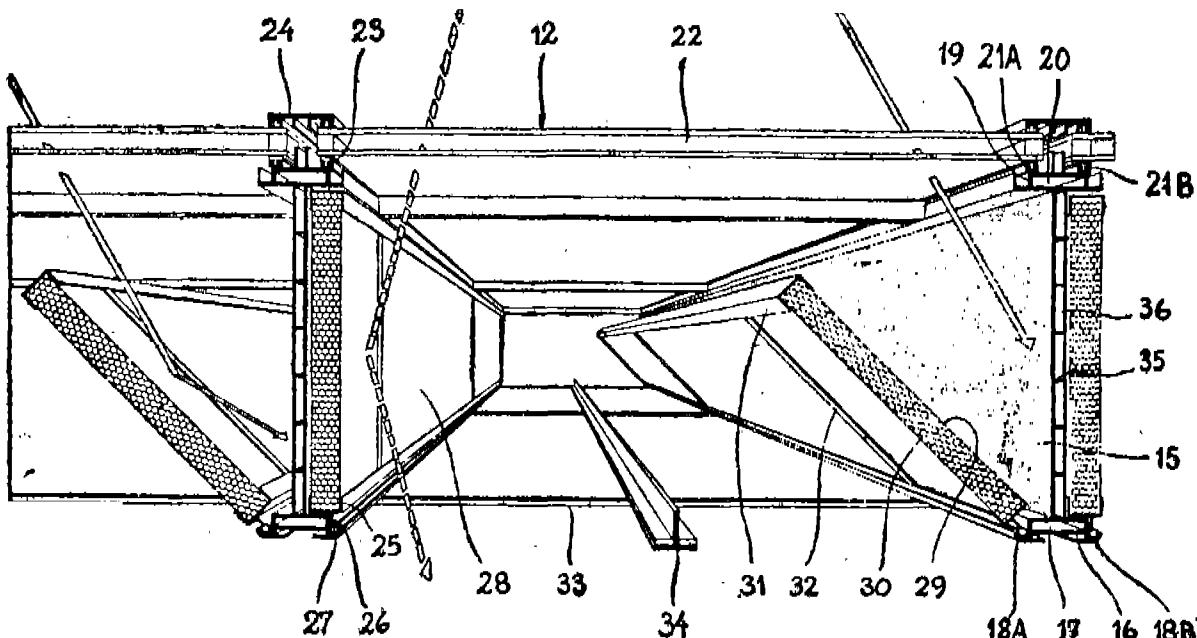
2 407GI/89

## 7 Claims

A roof structure for transparent roofs, consisting of :  
 a number of girders (11), and where, for at least a part of girders;  
 a sheet-formed solar panel (15, 36) is connected to a heat exchanger with a medium for heat transference;  
 characterized by the fact that the solar panel (15, 36) is connected to the side surfaces of the girders (11);  
 in that the solar panels are designed for receiving a fluid that can transfer heat; and

that in the space between two girders is placed at least one element (13, 14) with an upward-facing reflecting side (29) that can be moved between various posi-

tions in relation to the solar panel and in relation to the opening between neighbouring girders.



Compl. specn. 10 pages

Drg. 3 sheets

Int. CLASS<sup>4</sup> : B 65 D 13/00

165751

4 Claims

**JACKET DEVICE FOR AN ENAMELLED OR GLASSED VESSEL USED IN CHEMICAL PROCESSING INDUSTRY.**

Applicant : KENNECOTT MINING CORPORATION, FORMERLY KNOWN AS KENNECOTT CORPORATION, A NEW YORK CORPORATION, HAVING A PLACE OF BUSINESS AT 101 PROSPECT AVENUE, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.  
Inventor : KLAUS-PETER EBERT.

Application for Patent No. 927/Del/1985 filed on 6th November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

A jacket device for an enamelled or glassed vessel comprising :

- (a) a jacket formed to surround bottom and sidewall portions of said vessel in a spaced apart relationship thereto, said jacket including an upper edge and an annulus located in the bottom portion of said jacket;
- (b) a hollow cylindrical member welded to and extending downwardly from the bottom of said vessel surrounding an outlet means from said vessel which extends downwardly, said cylindrical section which is welded to said vessel before said vessel is enamelled or glassed; and
- (c) a downwardly covering conical member welded to and extending from a sidewall of said vessel, said conical member which is welded to said vessel before said vessel is enamelled or glassed;

said jacket being mounted over said vessel after said vessel is enamelled or glassed, with said annulus positioned to surround said cylindrical member in sufficiently close relationship to permit the use of solely automatic welding techniques, said annulus and said cylindrical member being welded together, and with said upper, edge of said jacket being abutted against downwardly converging conical member, in sufficiently close relationship to permit the use of solely automatic welding techniques, said upper edge and said downwardly converging conical member being welded together.

Compl. specn. 11 pages

Drg. 1 sheet

CLASS : 32 F. 3b; 32 F. 3d [IX(1)]

165752

Int. Cl.<sup>4</sup> : C07C 51/23, 51/235, 45/28, 47/20.

**AN OXIDATION PROCESS FOR OXIDIZING AN OLEFIN AND/OR AN ALCOHOL TO UNSATURATED ALDEYDE AND/OR ACID.**

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventor(s) : JAMES FRANK BRAZDIL, DEV DHANARAJ SURESH & ROBERT KARL GRASSELLI.

Application for Patent No. 601/Del/85 filed on 26th July, 1985.

Divisional to Application No. 90/Del/82 filed on 3rd February, 1982. Ante dated to 3rd February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

An oxidation process for oxidizing an olefin and/or an alcohol to unsaturated aldehyde and/or acid having no more than 13 contiguous carbon atoms, said process comprising contacting an olefin and/or an alcohol and oxygen at elevated temperature in the vapor phase in the presence of a catalyst which has the formula :

R<sub>a</sub> Q<sub>b</sub> A<sub>c</sub> B<sub>d</sub> Ce<sub>e</sub> W<sub>f</sub> V<sub>g</sub> Mo<sub>h</sub> O<sub>x</sub>

wherein A is alkali metal, Tl, Sm, Ag, Cu or mixtures thereof;

Q is Te, Ti, Zr, Th or mixture thereof;

R is Cr, Sb or a rare earth IIIB element other than Ce and Sm or mixtures thereof; and

wherein a is 0 to 6;

b is 0.01 to 24;

c is 0.01 to 24;

0 ≤ d + e ≤ f;

d + e + f is 8 to 16;

g is 0 to 24;

r is 0 to 24

a + q + r > 0

x is a number sufficient to satisfy the valence requirements of the other elements present.

Compl. specn. 12 pages.

Int. CLASS<sup>4</sup> : H02K 9/00, 41/02

165752

**PRIMARY MEMBER FOR LINEAR INDUCTION MOTOR.**

Applicant : URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD., OF 2 ST. CLAIR AVENUE WEST, TORONTO, ONTARIO, CANADA M4V 1L7.

Inventor : ALAN KEITH WALLACE.

Application for Patent No. 736/Del/85 filed on 5th September, 1985.

Convention date September 13, 1984/463109/(Canada).

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005

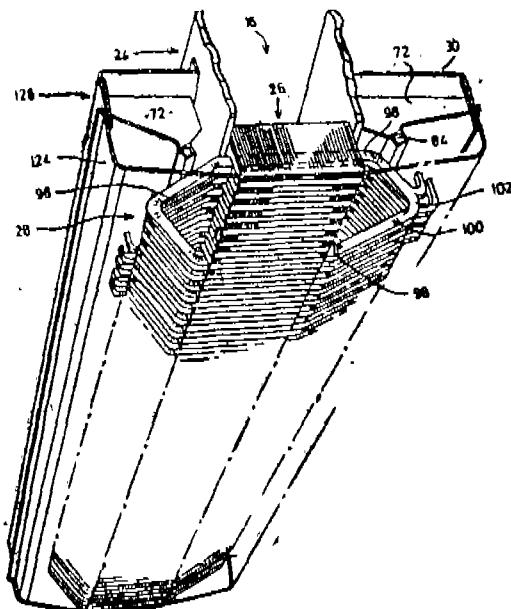
## 23 Claims

A primary member (16) for a linear induction motor comprising an elongate core :

a motor winding (28) having a plurality of turns spaced apart along said core and extending transversely thereto, said turns each having end winding projecting to opposite sides of said core and each having a knuckle portion (101, 102) to reverse the direction of said winding;

a pair of side cover assemblies (30) extending along said core (26) to either side thereof and encompassing said end winding;

and a plurality of fans (183) located on opposite sides of said core and outboard thereof to direct air from one side of a respective side cover assembly to outlet means on the other side to cool said end windings.



Inventors : RICHARD THOMAS NEWBOULD, SUSAN JANE PIGGS AND STEPHEN JOHN WILSON.

Application for Patent No. 783/Del/85 filed on 25th September, 1985.

Convention date 29th September, 1984/8424641/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims

A method of manufacturing silica optical fibre protected at least partially from water attack, comprising :

the steps of drawing optical fibre from silica preform which is unprotected from water attack in a drawing furnace and providing said optical fibre with a coating of nitride by silicon for protecting the fibre at least partially from water attack characterised by heating  $TiCl_4$  and  $SiCl_4$  in the flame of an oxy-hydrogen torch to form a titania/silica soot;

depositing the soot on the preform; and

sintering the soot to form a titania doped silica compressive surface layer on said preform followed by injecting a nitriding atmosphere into the drawing furnace whereby part of the surface layer is chemically changed to silicon nitride or silicon oxynitride by substituting at least part of the oxygen therein with nitrogen.

Compl. specn. 6 pages

Drg. 1 sheet

recycling the thus-formed solutions or condensates to the urea synthesis step, characterised by withdrawing said inert gases introduced into the process which are inactive for the urea synthesis reaction at a site where they are accumulated; and

utilizing the inert gases thus-withdrawn as a stripping agent of the unreacted materials in at least one stage of separation operation at the lower pressure.

Compl. specn. 23 pages

Drg. 1 sheet

Int. CLASS : C08C 19/12

165756

### A PROCESS FOR THE CONTINUOUS BROMINATION OF A BUTYL RUBBER POLYMER.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, THE TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 180 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : RONALD CHARLES KOWALSKI, WILLIAM MYERS DAVIS, NEIL FREDERICK NEWMAN, ZISIS ANDREW FOROULIS AND FRANCIS PAUL BALDWIN.

Application for Patent No. 805/Del/85 file on 3rd October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 10 Claims

A process for the continuous bromination of :

a butyl rubber polymer wherein the brominated polymer contains at least 1.5 wt% bromine and at least 20 mole % of the bromine, based on the initial mole % of unsaturation in the unbrominated butyl rubber is in the ENDO allylic (Type III) configuration;

characterised in that a cohesive mass of butyl rubber, substantially free of acid scavengers as herein described, is contacted with a brominating agent such as herein described at a temperature from 120°C to 190°C in a continuous flow device, under an acid environment as herein described;

for a time sufficient to brominate the butyl rubber and cause a rearrangement of a substantial fraction of the contained bromine from an EXO allylic (Type II) configuration to the Type III configuration;

said process including the steps of conveying said polymer through said continuous flow device, disengaging by-product formed by the reaction of the said brominating agent with the said butyl rubber and any unreacted halogenating agent downstream of the contact between said butyl rubber and said brominating agent;

said disengaging including the steps of deforming and disrupting as herein described said brominated polymer and injecting an effective amount of an inert gas thereby neutralizing said brominated polymer by disengaging bromination reaction by products and unreacted brominating agent.

Compl. specn. 40 pages

Drg. 3 sheets

Int. CLASS : 32 F<sub>2</sub>(c)

165755

Int. Cl' : C07C 126/02.

### PROCESS FOR PRODUCING UREA.

Applicant : TOYO ENGINEERING CORPORATION, A JAPANESE CORPORATION OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : HIDETSUGU FUJII.

Application for Patent No. 784/Del/85 filed on 25th September, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 2 Claims

An improved urea synthesis process which comprises : synthesizing urea from ammonia and carbon dioxide as starting materials in the presence of an excess of ammonia;

said starting materials also containing inert gases, subjecting the urea synthesis solution thus-formed to stripping under a high pressure using the carbon dioxide or ammonia as a stripping agent and further subjecting the resulting urea synthesis solution to at least one stage of decomposition and separation operation of the unconverted materials under a lower pressure than the said high pressure in order to separate the excess ammonia and the ammonia and carbon dioxide formed by the decomposition of ammonium carbamate which has not been converted to urea from the synthesis solution:

subjecting the thus-formed gaseous mixture of ammonia and carbon dioxide to absorption into solvents or condensation; and

Int. Cl. : C 07 C 2/00

165757

**PROCESS FOR THE RECOVERY OF ALKYLAROMATIC HYDROCARBONS.**

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, DES PLAINES ILLINOIS 60016, U.S.A.

Inventor : DENNIS JOHN WARD.

Application for Patent No. 874/Del/1985 filed on 18th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**5 Claims**

A process for recovering an alkylaromatic hydrocarbon from the effluent stream of an aromatic hydrocarbon alkylation zone which comprises the steps of :

- (a) passing an alkylation zone effluent stream which comprises a feed aromatic hydrocarbon, a product alkylaromatic hydrocarbon, and a by-product alkylaromatic having a higher boiling point than the product alkylaromatic hydrocarbon into a first fractionation column at a first intermediate point, with the first fractionation column being maintained at fractionation conditions as herein described in part through the use of a first reboiler being located at the bottom of the first fractionation column and supplying heat thereto;
- (b) removing a first net overhead product stream, which is rich in the feed aromatic hydrocarbon, from the first fractionation column;
- (c) removing a first net bottoms stream, which is rich in the product alkylaromatic hydrocarbon, and the by-product alkylaromatic from the first fractionation column and passing the first net bottoms stream into a second fractionation column which is operated under fraction-conditions as herein described to produce an overhead vapor stream column;
- (d) removing a second net bottoms stream, which is rich in the by-product alkylaromatic hydrocarbon, from the second fractionation column; and
- (e) condensing at least a portion of the overhead vapor stream withdrawn from the second fractionation column in a second reboiler by indirect heat exchange against liquid withdrawn from the first fractionation column at an intermediate second point located above the first reboiler and below said first intermediate point, and recovering a product stream which is rich in the product alkylaromatic hydrocarbon from the resultant condensate.

Compl. specn. 18 pages

Drg. 1 sheet

Int. CLASS : C 02 F 1/00

165758

**IMPROVED PROCESS FOR RECOVERING PHENOLS FROM WASTE WATERS STREAMS.**

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENCES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 180 PARK AVENUE, FI ORIHAM PARK, NEW JERSEY UNITED STATES OF AMERICA.

Inventor(s) : STEPHEN ALBERT YUHAS, DENISE WINTERGRASS.

Application for Patent No. 911/Del/85 filed on 30th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims**

An improved process for recovering phenols from wastewater streams containing phenolic impurities wherein the

wastewater stream is contacted with an ether extraction solvent of the kind as herein described for the extractive removal of the phenolic impurities, to form an ether extract phase containing at least a portion of said phenolic impurities and an aqueous raffinate phase depleted in said phenolic impurities, characterised by effecting the separation of said phases in the presence of a phase separation promoting amount of at least one polyhydric alcohol of the kind as herein described, and recovering in any known manner, phenols from said ether extract phase containing phenolic impurities.

Compl. specn. 18 pages

Ind. CLASS : 176 F I XLV(4), 85 I JK (XXXI) 165759

Int. Cl. : F22B 1/00.

**FLUIDISED COMBUSTION BED BOILER.**

Applicant : BHARAT HEAVY ELECTRICALS LTD. OF 18-20 KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA, AN INDIAN COMPANY.

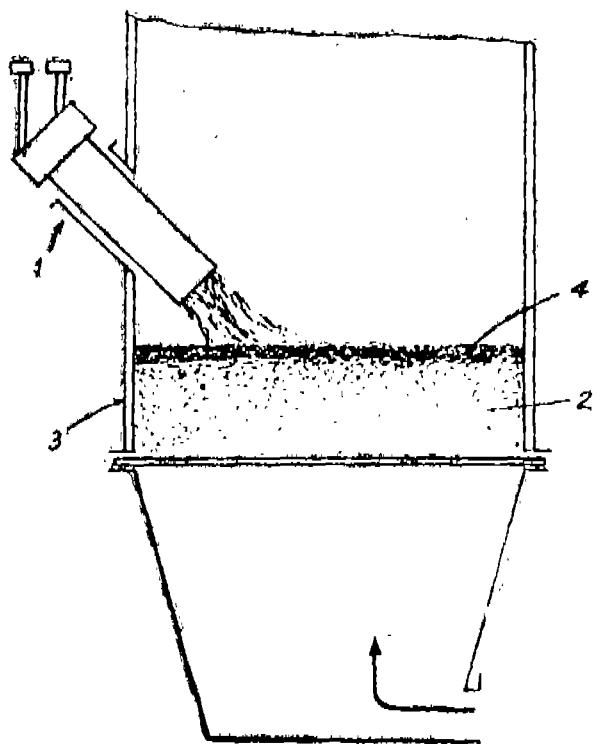
Inventor(s) : KARUTHAN MAIARKKAN VADAMALAYAN MALARKKAN, KANNAN PARTHIBAN, SUNDARESAN CHANDRASEKARAN & JOSEPH ANTONY.

Application for Patent No. 405/Del/86 filed on 5 May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**2 Claims**

A fluidised combustion bed (2) boiler having a burner therefor characterized in that said burner is mounted through a wall (3) of the bed, said burner (1) is a retractable liquified petroleum gas burner (1) and is provided at a level above the solid fuel bed and located in a downwardly inclined position so that when the burner is in operative position its nozzle (1) is directed towards and in close proximity to the solid fuel and that when retracted the burner is fully out of the combustion chamber over the said bed.



Compl. specn. 7 pages

Drg. 1 sheet

Int. CLASS : 32-B [IX(1)]

165760

Int. Cl<sup>4</sup> : C 07 C 11/02.

## PROCESS FOR OXYDEHYDROGENATION OF OLEFIN TO PRODUCE DIOLEFIN.

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventor(s) : JAMES FRANK BRAZDIL, DEV DHANARAJ SURESH, ROBERT KARL GRASSELLI.

Application for Patent No. 922/Del/86 filed on 20th October, 1986.

Divisional to Application No. 90/Del/82 filed on 3rd February, 1982 & Application No. 601/Del/85 filed on 26th July, 1985. Ante dated to 3rd February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2. Claims

An oxydehydrogenation process wherein :

an olefin having four or more contiguous carbon atoms and oxygen are contacted at temperature within the range of from 200 to 800°C in the vapour phase with a catalyst of formula R<sub>a</sub>Q<sub>b</sub>A<sub>c</sub>B<sub>d</sub>Ce<sub>e</sub>W<sub>f</sub>V<sub>g</sub>Mo<sub>h</sub>O<sub>x</sub> with a catalyst of formula R<sub>a</sub>Q<sub>b</sub>A<sub>c</sub>B<sub>d</sub>Ce<sub>e</sub>W<sub>f</sub>V<sub>g</sub>Mo<sub>h</sub>O<sub>x</sub> wherein A is alkali metal, Ti, Sm, AG, Cu or mixtures thereof;

Q is Te, Ti, Zr, Th or mixtures thereof;

R is Cr, Sb or a rare earth IIIB element other than Ce, and Sm or mixtures thereof; and

wherein a is 0 to 6;

b is 0.01 to 24;

c is 0.01 to 24;

d+e+f ≤ f;

d+e+f is 8 to 16;

q is 0 to 24;

r is 0 to 24;

a+q+r > 0;

x is a number sufficient to satisfy the valence requirements of the other elements present to produce the corresponding diolefin.

Compl. specn. 11 pages.

Int. CLASS<sup>4</sup> : H 01 L 15/00

165761

## A SEMICONDUCTOR DEVICE.

Applicant : ENERGY CONVERSION DEVICES, INC. A DELAWARE CORPORATION HAVING A PLACE OF BUSINESS AT 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, U.S.A.

Inventors : PREM NATH & MASATSUGU IZU.

Application for Patent No. 423/Del/84 filed on 19th May, 1984.

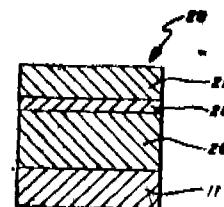
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A semiconductor device comprising :

- a first electrode,
- a photoresponsive semiconductor body disposed on said first electrode;
- a second electrode disposed on the semiconductor body opposite said first electrode;

said semiconductor body having at least one low resistance shunt path for the flow of electrical current between the first and second electrodes characterized in that a continuous transparent barrier layer of a material chosen from the group consisting essentially of magnesium fluoride based materials, oxides, nitrides and carbides of : indium, tin, cadmium, zinc antimony, silicon, chromium and mixtures thereof is disposed between the semiconductor body and one of the electrodes for decreasing the flow of electrical current through said at least one shunt path of said semiconductor device.



Compl. specn. 49 pages

Drg. 2 sheets

Int. CLASS<sup>4</sup> : C07D 291/00

165762

## A PROCESS FOR THE PREPARATION OF SORBINIL.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : BERKELEY WENDELL CUE JR. & BERNARD SHIELDS MOORE.

Application for Patent No. 434/Del/85 filed on 30th May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for the preparation of sorbinil, comprising :

adding a racemic 6-fluoro-4-(benzyloxycarbonylamino) chroman-4-carboxylic acid to at least a half molar quantity of l-(-)-alpha-methylbenzylamine in the presence of a lower alkanol-hydrocarbon solvent mixture to produce a crystalline S-6-fluoro-4-(benzyloxycarbonylamino) chroman-4-carboxylic acid salt with l-(-)-alpha-methylbenzylamine;

recovering said crystalline salt, subjecting said salt to aqueous hydrolysis by any known method to recover a S-6-fluoro-4-(benzyloxycarbonylamino) chromane-4-carboxylic acid and converting the thus obtained S-6-fluoro-4-(benzyloxycarbonylamino) chromane-4-carboxylic acid to sorbinil by conventional methods such as herein described.

Compl. specn. 27 pages

Drg. 3 sheets

Int. CLASS<sup>4</sup>: G01N 27/00

165763

AN IMPROVED ELECTROLYTIC RESPIROMETER FOR THE EVALUATION OF SOIL NITRIFICATION RATES AND OXYGEN AND/OR HYDROGEN UPTAKE RATES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : SUDHEER DATTATRAYA WACHA-SUNDER and TAPAN CHAKRABARTI.

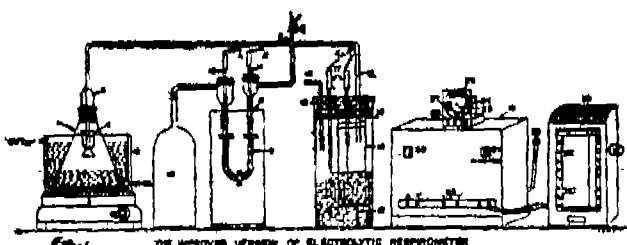
Application for Patent No. 614/Del/85 filed on 31st July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims

An improved electrolytic respirometer for the evaluation of soil nitrification rates and oxygen and/or hydrogen uptake rates which comprises :

- a reaction vessel consisting of a warburg flask (1) having an alkali container fitted inside with a magnetic bar;
- the vessel being housed in a constant temperature water jacket (2);
- the jacket placed on a magnetic stirrer (3);
- the container being connected to a manometer and an electrolytic cell through a four way joint (6);
- the manometer being provided with a float (8) at the limb connected to the reaction vessel;
- the electrolytic cell consisting of two co-centric glass containers (13 & 14) having sintered glass disc (15) at the bottom of the inner container;
- the container having a common airtight stopper (16) having holes for passing the terminals of the electrodes and connecting tubes, one electrode being inside the inner container and the other being outside the inner container;
- the terminals of the electrodes being connected to the terminals of a control box (19);
- the output terminals of the control box being connected to a strip chart recorder (29) to record the current flowing through the cell.



Compl. specn. 13 pages

Drg. 2 sheets

Ind. CLASS : 32E

165764

Int. Cl.<sup>4</sup> : C08F 236/00.

PROCESS FOR THE POLYMERISATION OR COPOLYMERISATION IN THE GAS PHASE OF ALPHA-OLEFINS.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W OSU, ENGLAND.

Inventors : DANIEL CLAUDE DURAND; FREDERIC ROBERT MARIE MICHEL MORTEROL & STYLIANOS SANDIS.

Application for Patent No. 1021/Del/85 filed on 3rd December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 9 Claims

Process for the polymerisation or copolymerisation in the gas phase of alpha-olefins of the kind such as herein described by polymerising or copolymerising the said alpha-olefins under a pressure of 0.1 to 5 MPa and a temperature of 0 to 115°C in a reactor in which the polymer or the copolymer is maintained in a fluidised bed and/or is agitated with mechanical stirring, said reactor containing a charge powder of the kind such as herein described in the presence of a catalytic system of the Ziegler-Natta type, consisting, as catalyst of a compound of a transition metal of groups IV, V, VI of the Periodic Table of Elements, and as co-catalyst, an organometallic compound of a metal of groups I to III of said periodic Table, characterised in that, previously to the introduction of the catalytic system in the reactor for starting up the polymerisation or copolymerisation, the charge powder is dehydrated and thereafter subjected to a treatment for at least five minutes by bringing the said charge powder into contact with at least one organoaluminium compound of the formula  $AlR_nX_{5-n}$

in which R is an alkyl group comprising from 2 to 12 carbon atoms, X is a hydrogen or halogen atom, or an alcoholate group, and n is a whole number or fraction comprised between 1 and 3, the quantity of organoaluminium compound employed being comprised between 0.1 and 50 millimoles per kilogram of charge powder.

Complete specn. 40 pages.

Int. CLASS<sup>4</sup>: C12G 3/00

165765

AN IMPROVED METHOD OF PRODUCING ETHANOL.

Applicant : SENTRAGHEM LIMITED OF ANDERSON STREET JOHANNESBURG, TRANSVAAL, SOUTH AFRICA. A COMPANY REGISTERED ACCORDING TO THE LAWS OF THE REPUBLIC OF SOUTH AFRICA.

Inventor(s) : THERESA DAWN MACKINTOSH, ANA PAULA QUINTELA.

Application for Patent No. 1026/Del/85 filed on 4th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims

An improved method of producing ethanol by the fermentation of molasses in the presence of a cerevisiae yeast which is capable of converting hexose sugar into ethanol characterised in that yeast S. castelli (R69) which is capable of growing and producing amylase in the molasses is also added in the process.

Complete specification 6 pages

Int. CLASS<sup>4</sup>: C 06 C 15/00

165766

A PROCESS FOR THE PREPARATION OF A GAS BUBBLE-SENSITIZED EXPLOSIVE COMPOSITION.

Applicant : ICI AUSTRALIA LIMITED, A COMPANY ORGANISED UNDER THE LAWS OF VICTORIA, AUSTRALIA, OF 1 NICHOLSON STREET, MELBOURNE, 3001 VICTORIA, AUSTRALIA.

Inventor(s) : DAVID JOHN CURTIN & DAVID EDWIN YATES.

Application for Patent No. 1046/Del/85 filed on 10th December, 1985.

Convention date December 11, 1984/PG 8517. (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 9 Claims

A process for the preparation of a gas bubble-sensitized explosive composition which composition is liquid during the preparation, the process comprising the addition to the liquid explosive composition of a gas bubble-generating agent selected from the group consisting of (i) gases which are substantially insoluble in the liquid at ambient temperature and pressure, and (ii) substances capable of generating such gases *in situ*, characterised in that—

- (a) the liquid is subjected to conditions of super-atmospheric pressure in a manner known per se such that the *major portion* of any gas present in or added to the liquid is dissolved; and
- (b) the conditions of super-atmospheric pressure are rapidly released in a manner known per se to form in the composition a discontinuous gaseous phase.

Compl. specn. 23 pages

Drg. 2 sheets

Int. CLASS<sup>4</sup>: B 29 D 7/00

165767

A COMPOSITION BASED ON ETHYLENE POLYMER SUITABLE FOR THE MANUFACTURE OF STRETCHABLE CLING FILM AND A PROCESS FOR PREPARING THE SAME.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON, SW1W OSU, ENGLAND.

Inventors : BERNARD BERRIER AND JEAN PAUL THERSAULT.

Application for Patent No. 1076/Del/85 filed on 18th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 7 Claims

An improved composition based on ethylene polymer suitable for the manufacture of stretchable cling film characterised in that the composition comprises from 80 to 99% by weight of at least one polymer or copolymer of ethylene having a density less than or equal to 0.935, and a total of from 1 to 20% by weight, based on the total composition, of components (a) and (b) comprising :

- (a) at least one cling agent selected from liquid polybutene, polyisobutene and ethic polypropylene; and
- (b) at least one crystalline wax as herein described having melting points, (as determined by differential scanning calorimetry) between 50° and 200°C and a number average molecular weight between 250 and 15000 and wherein the quantity of the crystalline wax lies in the range 0.01 to 50% by weight of the total weight of (a) and (b) together.

Compl. specn. 18 pages.

Int. CLASS<sup>4</sup>: H 02 K 41/02

165768

A VEHICLE COMPRISING A LINEAR INDUCTION MOTOR SECONDARY HAVING A REACTION WINDING.

Applicant : URBAN TRANSPORTATION DEVELOPMENT CORPORATION LTD., A CORPORATION ORGANISED UNDER THE LAWS OF CANADA OF 2 ST. CLAIR AVENUE WEST, TORONTO, ONTARIO, CANADA M4V 1L7.

Inventor : JOHN BALLANTYNE.

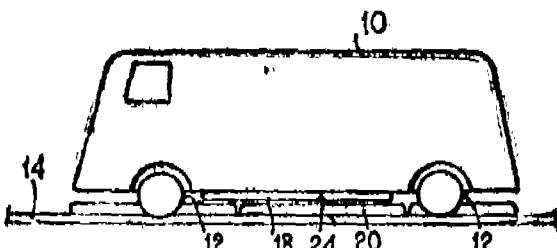
Application for Patent No. 1081/Del/85 filed on 18th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 5 Claims

A vehicle comprising :

a linear induction motor secondary having a reaction winding, whereby the vehicle can be propelled along a rail by a moving magnetic field produced by a linear induction motor disposed along the path; and means for setting the thrust characteristics of the secondary, the setting means connecting the ends of the reaction winding with a finite impedance whereby current can flow in the reaction winding, said setting means including a capacitor electrically connecting the ends of the reaction winding.



Compl. specn. 14 pages

Drg. 3 sheets

Ind. CLASS : 32 F<sub>1</sub>

165769

Int. CLASS<sup>4</sup>: C 07 C 51/12.

A PROCESS FOR THE PREPARATION OF 2-ETHYL HEXYL CHLOROFORMATE.

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 UNIVERSITY ROAD, DELHI-110007, INDIA, AN INDIAN INSTITUTE, REGISTERED UNDER SOCIETIES ACT.

Inventor(s) : KRISHNA KUMAR JAIN, ANIRUDH KUMAR AGGARWAL, MADHUMATI SAROOP, NAVINDU GUPTA & NEERAJ KUMAR GUPTA.

Application for Patent No. 3/Del/86 filed on 1 January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 5 Claims

A process for the preparation of 2-ethyl hexyl chloroformate which comprises :

in injecting phosgen into distilled 2-ethyl hexanol in a dropwise manner for a period of 2 to 4 hours at a temperature of from 0°—17°C;

stirring the reaction medium thereafter for a period of upto 3 hours;

removing the unreacted phosgene from the reaction product consisting of 2-ethyl hexyl chloroformate washing said chloroformate with hot water for removal of 2-ethyl hexanol;

removing entrapped water by treating the chloroformate with anhydrous sodium sulphite or sulphate; and then subjecting the chloroformate to the step of distillation.

The product of the invention is useful as an intermediate for the preparation of peroxy dicarbonates.

Compl. specification 8 Pages.

Ind. CLASS : 32 E [IX(1)] 165770

Int. Cl<sup>4</sup> : C08F—10/02, 10/06, 10/08.

#### GAS FLUIDIZED BED PROCESS FOR THE PRODUCTION OF COPOLYMERS.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76, BUCKINGHAM PALACE ROAD, LONDON SW1W OSU, ENGLAND.

Inventor(s) DANIAL CLAUDE DURAND, FREDERIC ROBERT MARIE MICHEL MORTEROL.

Application for Patent No. 121/Del/86 filed on 13 February, 1986.

Convention date April 30, 1985/480368 (Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A gas fluidised bed process for the production of copolymers having a density comprised between 0.900 and 0.935, the process being characterised in that it comprises a copolymerisation of (a) ethylene, (b) propylene and/or 1-butene, and (c) alpha-olefins comprising 5 to 8 carbon atoms or a mixture of these alpha-olefins in the gaseous state in admixture with an inert gas and optionally hydrogen, the gas mixture circulating from bottom to top through the fluidised bed of the copolymer in course of formation, the copolymerisation being effected at a temperature comprised between 50°C and 100°C in the presence of a catalyst system comprising :

on the one hand, a cocatalyst consisting of at least one organometallic compound of a metal of Groups II and III of Periodic Table of Elements:

on the other hand, a solid catalyst of the general formula-



in which Me is an aluminium and/or zinc atom;

$\text{R}_1$  is an alkyl group comprising 2 to 8 carbon atoms;  $\text{R}_2$  is an alkyl group comprising 2 to 12 carbon atoms; X is a chlorine or bromine atom;

D is an electron donor compound of the kind such as herein defined the titanium being in a valency state less than the maximum, where-

m is comprised between 1 and 2, preferably between 2 and 5;

n is comprised between 0 and 1, preferably between 0 and 0.5;

p is comprised between 0 and 2, preferably between 0.5 and 2;

q is comprised between 0.01 and 1, preferably between 0.5 and 0.8;

r is comprised between 2 and 12, preferably between 6 and 12; and

s is less than 0.2, preferably equal to 0;

the partial pressures (pp) of the various ingredients of the gas mixture being such that;

$0.05 \leq \text{pp comonomer (b)} : \text{pp ethylene} \leq 0.4$

$0.05 \leq \text{pp comonomer (c)} : \text{pp ethylene} \leq 0.2$

$0 < \text{pp hydrogen} : \text{pp ethylene} \leq 0.5$

$0.2 \leq \text{pp inert gas} : \text{total pressure} < 0.8$ ; and

$0.01 \text{ MPa} \leq \text{PP comonomer (c)} \leq 0.1 \text{ MPa}$

comonomer (b) being propylene or 1-butene or a mixture of these two olefins;

comonomer (c) being an alpha-olefin comprising 5 to 8 carbon atoms or a mixture of these alpha olefins.

Complete specification 31 pages.

Int. CLASS<sup>4</sup> : F 16 D 65/12 165771

#### AN AUTOADJUSTER DEVICE FOR DRUM BRAKE.

Applicant : AKEBONO BRAKE INDUSTRY CO., LTD., OF NO. 19-5, KOAMI-CHO, NICHONBASHI, CHUO-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

Inventor : KATSUO KAWASHIMA.

Application No. 600/Mas/85 filed 1st August 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 2 Claims

An autoadjuster device for drum brake characterized in that a pair of brake shoes openable expansively on a backing plate by operating means :

an anchor pin fixed on said backing plate for contacting with each one end of said brake shoes;

an adjuster lever pivoted to one of said brake shoes;

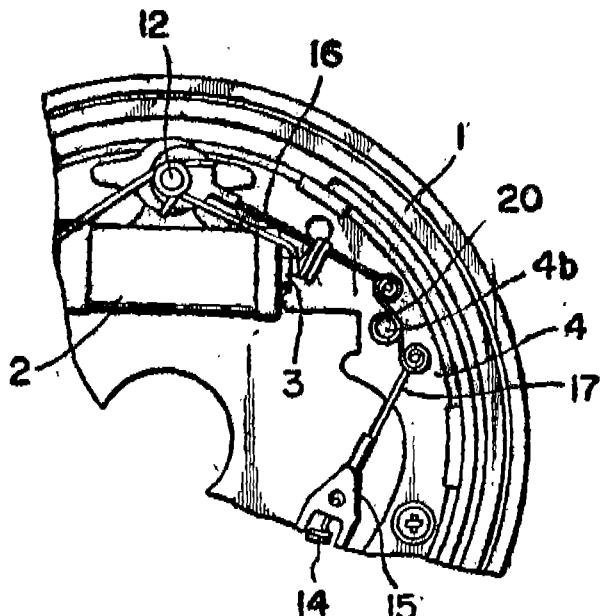
one adjuster member disposed between other ends of said brake shoes and extended by said adjuster lever; a link pivoted to one of said brake shoes;

an upper cable connecting said anchor pin with said link, and a lower cable connecting said adjuster lever with said link;

wherein said link is made of a spring material:

the fastening portions thereof to connect said upper cable and lower cable with both ends and the central portion thereof are formed windingly; and

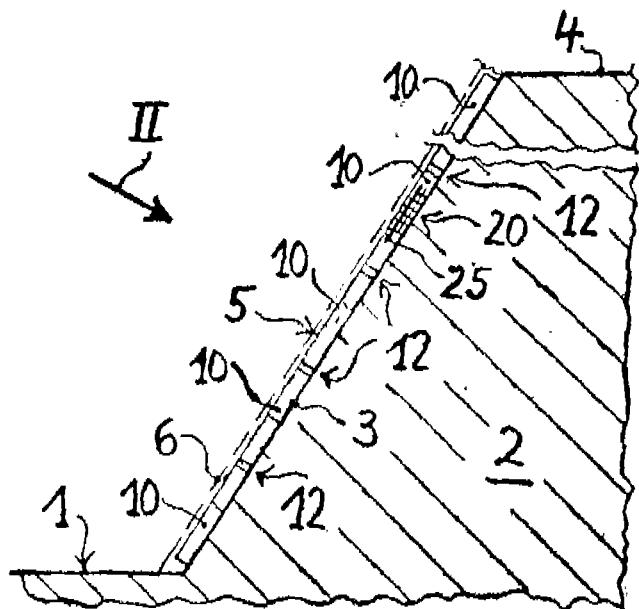
the link has a cylindrical portion to be pivoted to one of said brake shoes.



Compl. specn. 9 pages

Drg. 2 sheets

ed to stakes (11) which are driven into the surface (3) of the bank.



Compl. specn. 14 pages

Drg. 2 sheets

Int. CLASS<sup>4</sup> : F 16 D 65/38

165773

#### STRUTTYPE AUTO-ADJUSTABLE DEVICE OF CLEARANCE FOR DRUM BRAKE.

Applicant : AKEBONO BRAKE INDUSTRY CO., LTD.,

Applicant : AKEBONO a,xyOppz..c) xzffifff 7890/..x  
OF NO. 19-15, KOAMI-CHO, NIHONBASHI, CHUO-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

Inventor : HIROSHI IKEGAMI.

Application No. 647/Mas/85 filed August 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 2 Claims

A strut type auto-adjustable device of clearance for drum brake wherein :

a pair of brake shoes are pivoted onto a backing plate; a parking lever is pivoted to one of said pair of brake shoes so as to move freely a strut receiving said one brake shoe and said parking lever at one end;

a gear component secured to this strut;

characterised by an eccentric cam component having a supporting pin, is provided into a long hole formed in this strut so as to be movable to the longitudinal direction of strut and the said cam being pivoted to strut by this supporting pin;

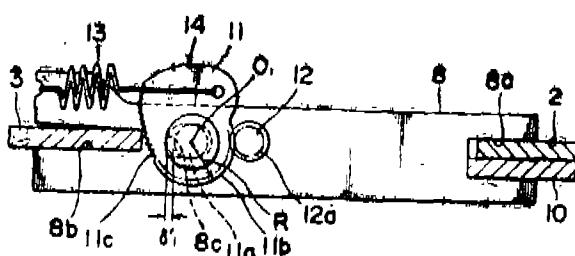
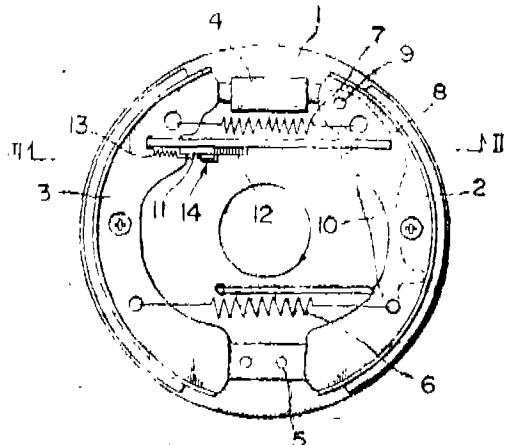
said eccentric cam component further having an arc tooth portion formed on the arc with a center at said supporting pin and engage with said gear component;

#### 12 Claims

Supporting strip for being applied on edge to the inclined surface (3) of a bank before the application of bank covering material, in particular an earthy material, to form a grid overlying the surface (3) of the bank comprising a fabric (20) with warp and weft threads (21 and 22) of textile fibres, said warp and weft threads (21 and 22) of the fabric (20) are made of fiber material of vegetable origin such as herein defined and the fabric (20) is secur-

the face of the cam is engaged with other one of said pair of brake shoes; and

a spring is connected between the cam component and the strut to move the face of said eccentric cam component toward said other brake shoe while increasing the radius vector of said cam face.



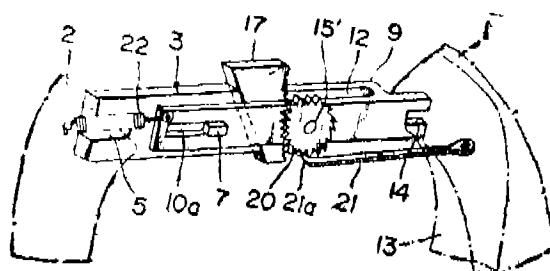
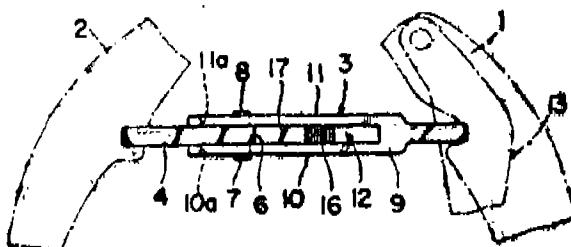
Compl. specn. 10 pages

Drg. 3 sheets

a second strut (9) (9') having two side plates (10), (10'), (11), (11') and a receiving portion (12), (12') between these side plates to which said first strut is guided making it possible to move in the longitudinal direction at one end and a branched engaging portion (14), (14') to engage with the other brake shoe (1) at other end;

a rotatable pinion (16) supported between said two side plates (10), (11), (10'), (11') of said second strut; and

a wedge (17) having a rack (19) to mesh with said pinion on one side and a slanted plane (18) to contact with the slanted face of said first strut on other side.



Compl. specn. 2 sheets;

Drg. 3 sheets

Int. CLASS<sup>4</sup>: F 16 D 65/38

165774

**STRUT TYPE CLEARANCE-ADJUSTABLE DEVICE FOR A DRUM BRAKE.**

Applicant : AKEBONO BRAKE INDUSTRY CO., LTD., OF NO. 19-5, KOAMI-CHO, NIHONBASHI, CHUO-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

Inventor : HIDEAKI NIUKURA.

Application No. 648/Mas/85 filed August 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A strut type clearance-adjustable device for :  
a drum brake;

characterised in that, in the strut type clearance-adjustable device for the drum brake provided with an extensible strut member which is disposed between a pair of brake shoes and which retains the space between both brake shoes;

said extensible strut member (3) comprises a first strut (4) having a branched engaging portion (5) to engage with one brake shoe (2) at one end and a slanted face (6) at other end;

Int. CLASS<sup>1</sup>: F 16 D 65/38

165775

**EXTERNAL TYPE AUTO-ADJUSTABLE DEVICE OF CLEARANCE FOR DRUM BRAKE.**

Applicant : AKEBONO BRAKE INDUSTRY CO. LTD., OF NO. 19-5, KOAMI-CHO, NIHONBASHI, CHUO-KU, TOKYO, JAPAN.

Inventors : (1) IKUO KIRIHARA, (2) AKIO NEGISHI.

Application No. 649/Mas/85 filed August 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

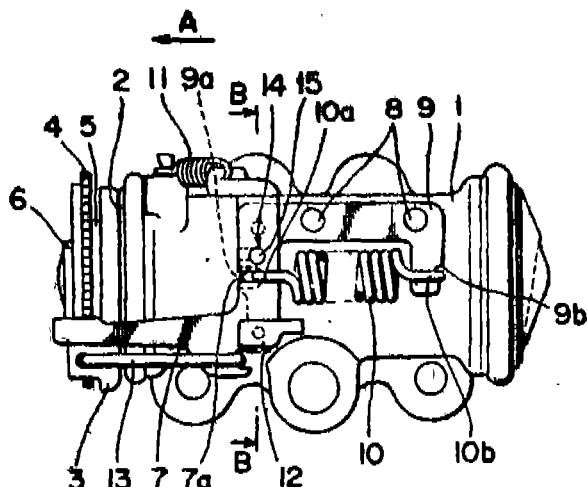
2 Claims

An external type auto-adjustable device of clearance for drum brake wherein :

a bracket is fixed onto a body of wheel cylinder; an overtravel spring having hooking portions hooked to this bracket at both ends, respectively;

an adjuster lever fastened to one of the hooking portions of this overtravel spring and simultaneously connected with a piston inserted slidably into said body of wheel cylinder through a link;

an adjuster gear engaged with the adjuster lever to be rotated by the motion of the adjuster screw connected to the adjuster gear which is screwed out by the rotation of the adjuster gear and a guiding mechanism to guide the movement of said adjuster lever to the direction of the stroke of piston is provided as herein defined between said bracket and said adjuster lever.



Compl. specn. 13 pages

Drg. 5 sheets

Int. CLASS<sup>1</sup> : C 07 C 1/04; B 01 J 11/24 165776

PROCESS FOR THE PREPARATION OF HYDROCARBONS BY CATALYTIC REACTION OF CARBON MONOXIDE AND HYDROGEN.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS.

Inventors : (1) MARTIN FRANCISCUS MARIA POST  
(2) SWAN TIONG SIE.

Application No. 650/Mas/85 filed August 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims. No drawing

A process for the preparation of  $C_n$  hydrocarbons by catalytic reaction of carbon monoxide with hydrogen having a  $H_2/CO$  molar ratio of 1.5 to 2.5, characterized in that a mixture of carbon monoxide and hydrogen is contacted at a temperature of 125 to 350°C and pressure of 5 to 100 bar with a catalyst comprising 3 to 60 parts by weight of

cobalt per 100 parts by weight of a carrier, the cobalt being distributed over the carrier in such a way as to satisfy the relation

$$\frac{\epsilon V_p}{\epsilon V_c} < 0.85,$$

wherein  $\epsilon V_c$  represents the total volume of the catalyst particles under consideration and  $\epsilon V_p$  is the peel volume present in the total volume of catalyst particles, when the latter is taken to be composed of a kernel surrounded by a peel, the kernel being of such a shape that at every point of the kernel perimeter the shortest distance (d) to the perimeter of the peel is the same, and that d is equal for all catalyst particles under consideration and has been chosen such that the quantity of cobalt present in  $\epsilon V_p$  is 90% of the quantity of cobalt present in  $\epsilon V_c$ .

Compl. specn. 13 pages

Int. CLASS<sup>1</sup> : H 02 G 15/00

165777

#### A LAMINATE FOR SEALING AN APERTURE.

Applicant : RAYCHEM GMBH, A COMPANY ORGANIZED ACCORDING TO THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF HAIDGRABEN 6, 8012, OTTOBRUNN, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) KARLHEINZ BECKER, (2) BERND GERLACH.

Application No. 652/Mas/85 filed August 21, 1985.

Convention date 22-8-84 No. 842/357 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

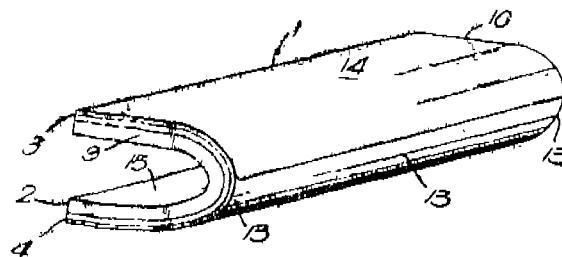
#### 5 Claims

A laminate for sealing an aperture comprising :

at least one layer of sealant or adhesive such as herein described;

at least a flexible heater layer consisting of a known electrically conductive polymeric composition having laminar flexible electrodes mounted on opposite faces thereof; and

at least one layer of heat recoverable foam thereon, the direction of recovery of the heat recoverable layer when heated by the heater layer increases its thickness so as to seal the aperture.



Compl. specn. 15 pages

Drg. 2 sheets

Int. CLASS<sup>1</sup>: B 63 B 27/12

165778

## A SYSTEM FOR OPEN SEA TRANSFER OF ARTICLES BETWEEN ONE VESSEL AND ANOTHER.

Applicant : BRITISH AEROSPACE PUBLIC LIMITED COMPANY, OF 100 PALI MALL, LONDON SW1Y 5HR, UNITED KINGDOM.

Inventors : (1) HEINZ ERWIN FRICK, (2) DENNIS JOHN MOTTRAM.

Application No. 653/Mas/85 filed August 21, 1985.

Convention date August 22, 1984; (No. 8421322; United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 8 Claims

- A system for open sea transfer of articles between one vessel and another, both being subject to movement in the pitch, roll, yaw, heave and sway senses comprises :

a first gantry having one end carried by a first vessel and a free end having carrying means adapted for carrying an article with a generally upwardly directed engagement means;

the first gantry being articulated such that the carrying means can be stabilised in space whereby it maintains a generally constant position or course in space irrespective of the motion of the first vessel;

a second gantry having one end carried by a second vessel and a free end having generally downwardly directed engagement means having a fixed portion and a movable portion for engaging said upwardly directed engagement means;

the second gantry being articulated such that the downwardly directed engagement means can be substantially stabilised in space whereby it maintains a generally constant position or course in space irrespective of the motion of the second vessel;

said first gantry being articulated such that the upwardly directed engagement means can be positioned generally below said downwardly directed engagement means when an article is to be transferred;

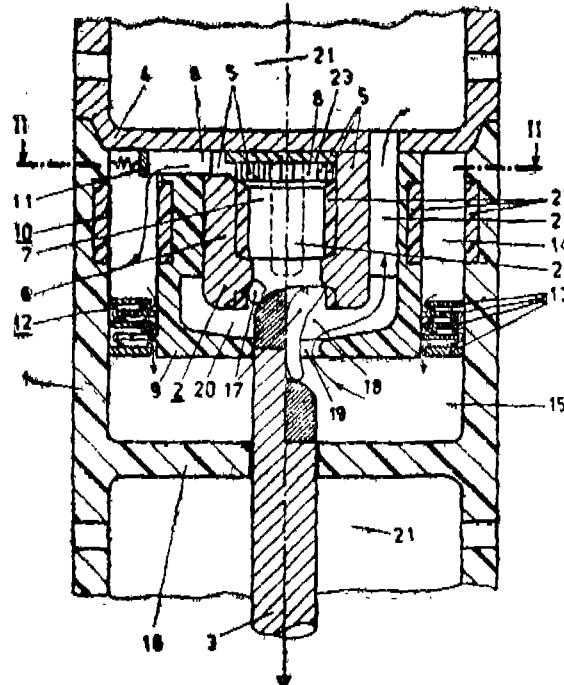
the movable portion of said downwardly directed engagement means having means to effect downward movement to effect mating engagement with said upwardly directed engagement means.

Compl. specn. 16 pages

Drg. 3 sheets

## 10 Claims

Gas-blast switch having two interacting switch pieces (2, 3), of which a first switch piece (2) has a hollow space (7) which is filled in the switch-on position at least partially by a second switch piece (3) of both switch pieces, having a pressure reservoir (10) which encircles the switch pieces (2, 3) and is connected to the hollow space (7), having an arc chamber (18) which adjoins the hollow space (7), is at least partially limited on its outer side by an insulating body, and, during switching-off, can be connected by a second switch piece (3) of both switch pieces (2, 3) to both the pressure reservoir (10) and to an expansion space (21), and having first channels (8) connecting the hollow space (7) and the pressure reservoir (10) and having second channels (22) connecting the arc chamber (18) and the expansion space (21), characterised in that the first and second channels (8, 22) run cross-wise and that the insulating body is made as an insulating nozzle (9) and has a gas inlet, which can be connected to the pressure reservoir (10) and also a gas outlet which is located between a narrow point (19) of the insulating nozzle (9) and the free end of the first switch piece (2), can be connected to the expansion space (21) and, during switching-off, can be cleared by the second switch piece (3) before the gas inlet.



Compl. specn. 14 pages

Drg. 2 sheets

Int. CLASS<sup>1</sup>: H 01 H 33/02

165779

## GAS-BLAST SWITCH.

Applicant : BBC BROWN, BOVERI LTD., OF CH-5401, BADEN, SWITZERLAND, A SWISS COMPANY.

Inventor : LUTAZ NIEMEYER.

Application No. 664/Mas/85 filed August 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

Int. CLASS<sup>1</sup>: H 03 F 1/52; H 02 H 3/20

165780

## A POWER CIRCUIT.

Applicant : CHARBONNAGES DE FRANCE, OF 9, AVENUE PERCIER, 75008 PARIS, FRANCE A FRENCH COMPANY.

Inventor : CHRISTIAN MARGET; GERARD ROSE.

Application No. 672/Mas/85 filed 28th August 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

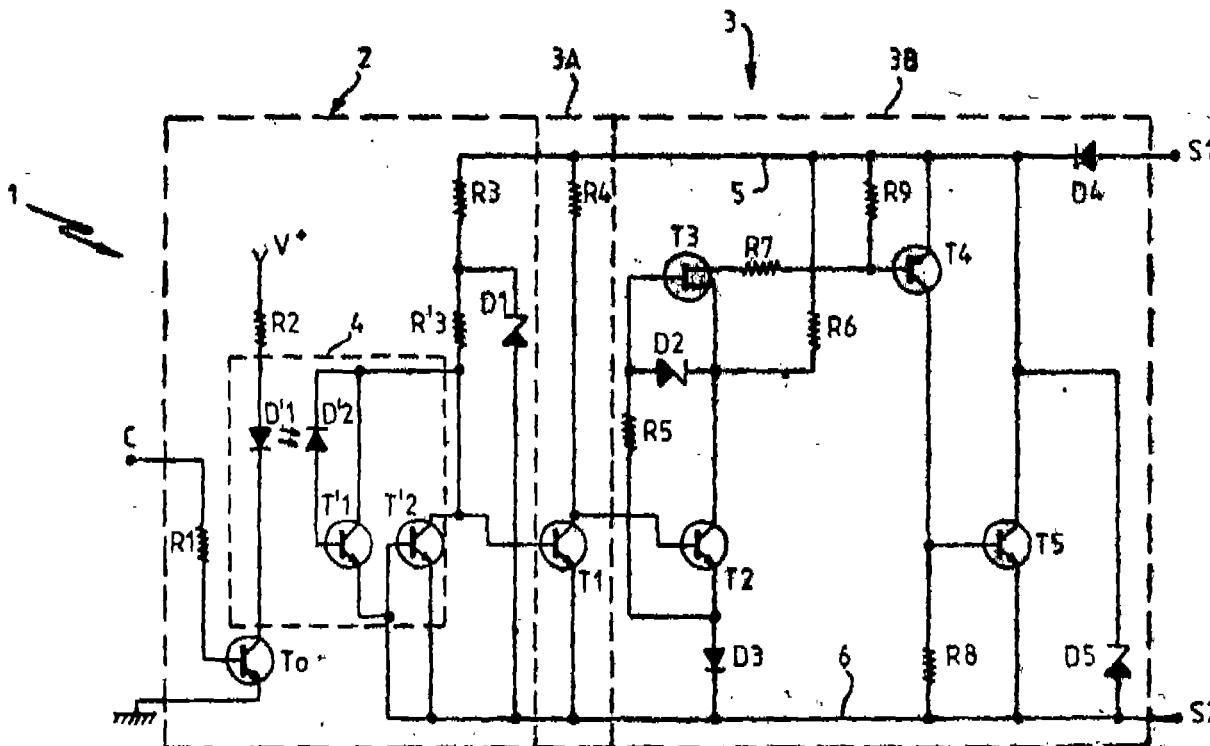
8 Claims

### **Power circuit comprising :**

- a main circuit having a current amplifier circuit connected between a minimum potential line and a maximum potential line;
  - a protection circuit connected between said minimum potential line and said maximum potential line and in series with said current amplifier circuit;

said protection circuit having a control terminal, and a trigger and distributor circuit connected in parallel with said main circuit and said protection circuit adapted to neutralize said protection circuit via its control terminal when the voltage across said main circuit is below a threshold value and to activate said protection circuit when said voltage across said main circuit reaches said threshold value whilst maintaining said voltage across.

said main circuit at a substantially constant ratio to the voltage between said minimum and maximum potential lines.



Compl. specn. 14 pages

Drg. 2 sheets

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 161056. Harshad Himatlal Raval Bhaga Talav.  
Darbar Street, Bhavnagar-364 001. (Gujarat-  
India), an Indian Subject. "A door Catch with  
Safety Chain". 6th June, 1989.

Class 1. No. 161254. Godrej & Boyce Mfg. Co. Ltd., of  
Godrej Bhavan, 4A Home Street, Bombay-400001,  
Maharashtra, India, an Indian Company. "a"  
Mortise Lock. "4th August, 1989.

Class 1. No. 161352. Seyid Umar Bašaki, of B. M. House,  
Koya Road, West Hill, Calicut-5, Kerala State,  
India. a "Hookah". 31st August, 1989.

Class 3. No. 161030. Sajavat, 210, Golf Links, New Delhi-110003, India, "Planter (Plant Pot)". 31st May, 1989.

Class 3. No. 161033. Sajavat, 210, Golf Links, New Delhi-  
110003, India, "Cabinet of Bar". 31st May,  
1989.

Class 3. No. 161103. Richie Rich Products, A-18, Ram House, Middle Circle Connaught Place, New Delhi-110001, India, an Indian Sole Proprietorship concern. "Toy". 21st June, 1989.

Class 3. No. 161223. Mita Industrial Company Limited, of  
2-28 Tamatsukuri 1-chome, Chuo-ku, Osaka-shi,  
Osaka-fu, Japan. "Toner Cartridge". 26th July,  
1989.

Class 3. Nos. 161451 161452. Plastronics, Registered Partnership Firm, of A-24, Nand Jyot Industrial Estate, Safed Pool, Andheri-Kurla Road, Bombay-400072, in the State of Maharashtra, India. "Base for Mixer/Grinder". 21st September, 1989.

Class 5. No. 161211. Amity Perfumes Private Limited, (an Indian Company) at 157-59 Narayan Dhuru Street, Bombay-400003, State of Maharashtra, India. "Box". 21st July, 1989.

*Copyright Extended for the Second period of five years*

Nos. 158199, 158193, 158192, 154465. .... Class 1

No. 160649, 154462, 158051, 154428,  
159373, 159811, 159395, 158994,  
158634, 158993, 158328, 158329,  
158500, 158581, 154460, 154459  
154466, 154464, 154463, 154461,  
159148, 159149, 151607, 16140..... Class 3.

Nos 158410, 158225 . . . . . Class 4.

Nos. 160736, 160632, 160737, 1609392  
158280, 158278, 158279. . . . . Class 5.

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Nos. 158199, 158193, 158192. . . . . Class 1

Nos 160649, 158051, 158634, 158328,  
158328, 158500, 158581, 159373,  
159373, 159811, 159395, 159148,  
159149, 161307, 161306. . . . . Class 3

Nos. 158470, 158225. . . . . Class 4.

Nos. 160736, 160632, 160737, 168280,  
158278, 158279, 159392. . . . . Class 5.

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R. A. ACHARYA  
Controller General of Patents & Designs  
and Trade Marks

